

American Fruit Grower

SEPTEMBER • 1961

25 CENTS

PRODUCTION

PACKING

MARKETING

Our Fruit Pioneers
Hydrocooling Apples
Grower Experience
With Sweet Cherries



Fruit Harvesting with an Inertia Shaker—See page 14



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BULLDOZERS

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HALF-TRACKS



American Fruit Grower

Reg. U.S. Pat. Off.

Cover photo shows Gould inertia shaker removing apricots from tree.

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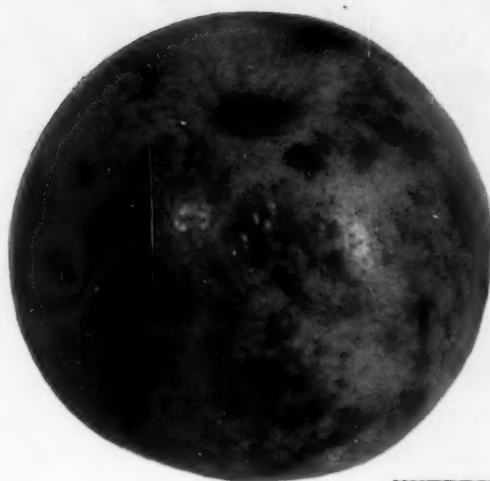
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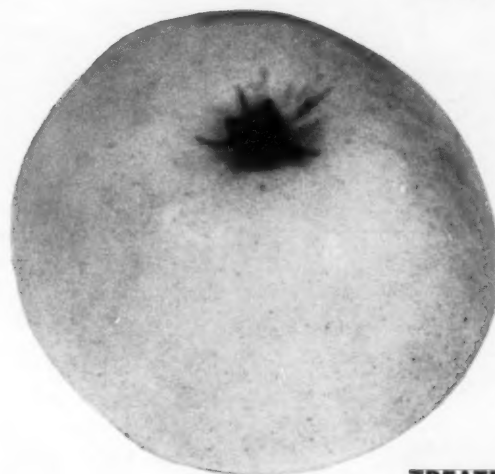
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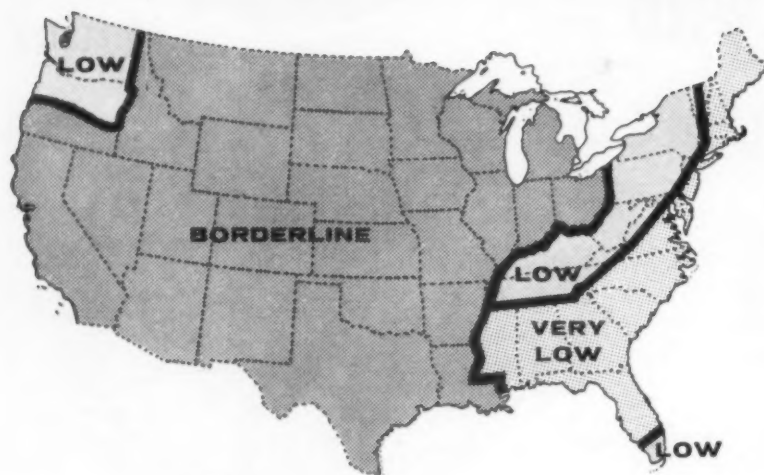
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SPM-5-2

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LETTERS TO THE EDITOR

Do You Know The Answer?

Dear Editor:

It has been brought to our attention by one of our fruit processors that the Montmorency cherries from four orchards were graded in his plant as extra fancy (high quality) by the state inspector. However, when these cherries were soaked in water as a regular practice in the processing industry, in an attempt to firm them and to facilitate pitting, these cherries become progressively whitish in a few hours and in the process of pitting they became very soft, and subsequently turned brown.

The grade of the product to be frozen became poor. This rapid change of the excellent quality of cherries to poor quality took place within two to three hours.

Similar, but rather drastic phenomenon was evidenced of Montmorency cherries harvested from one other orchard. When these cherries were soaked in tap water for a few hours the pits were at the bottom of the tank and the brown flesh and the skin were floating at the top.

The malady was discussed with several experienced growers, processors, faculty members at the Utah State University, Dr. John Brekke, Western Utilization Research Laboratory, and Dr. Clifford Bedford, Michigan State University.

Some of us think that these unusual changes could be due to the high temperature (over 100° F.) just prior to harvest which may have "cooked" the tender fruits on the trees and upon putting them in cold water the biochemical reactions that are responsible for softening and discoloration of anthocyanins may have accelerated.

If you or your readers have any ideas or have had any experience with this malady and its control, please let us know.

Logan, Utah

D. K. Salunkhe

We have seen this in a small way with brined cherries. We have seen portions of cherries behave this way, due to lug scald. But we have never before heard of a substantial tonnage acting this way. It has been very hot in Utah. Is this a matter of adverse climatic conditions? Any ideas?
—Ed.

Popular Fellow

Dear Editor:

Two years ago when the small boy eating an apple and peeking around a box appeared on your AMERICAN FRUIT GROWER, I was tempted to write regarding this picture, and now with the July, 1961, issue out. I cannot contain myself any longer.

I would just bet that you have a colored picture of this fellow and I am wondering, if so, how could a farm advisor in California go about getting it. I am working in the famous Sebastopol Gravenstein area and this would be most appropriate on the wall above my desk.

Would appreciate hearing from you.

Santa Rosa, Calif.

Kim O. Roberts

A colored poster of "Juicy" has been sent to Reader Roberts by National Apple Institute, Washington Bldg., Washington 5, D. C. Growers who are members of apple groups can secure Juicy posters through their state or regional organization. Individual growers can purchase direct from NAI at a cost of 50 cents each, post-paid, in lots of ten.—Ed.

AMERICAN FRUIT GROWER



OUR FRUIT PIONEERS

PART 2—Peach and nectarine breeding in the United States

By J. R. MAGNESS

PEACHES came to America with the earliest settlers from Spain and other European countries. The native home of the peach and nectarine appears to be China, where these fruits were mentioned in writings at least 4000 years ago.

The peach was long thought to be native in Persia. In fact, the word peach is based on a Latin word meaning Persian, and peaches were once known as "Persian apples." However, studies made during the past century give conclusive evidence that the original home of the peach is China and that it came to Europe by way of Persia. It had reached the Mediterranean countries before the time of Christ and from there spread throughout temperate Europe.

The early plantings of peaches in America were of seedling trees and much of the fruit was used for making brandy. Shortly after the Revolution, however, sizable orchards of budded trees had been established. These undoubtedly were propagated from superior seedling trees.

In addition to introductions from Europe, peaches were also brought from China. The Chinese cling, imported in 1850 by Charles Downing,

has contributed greatly to American peach varieties.

Early breeding work in this country consisted in planting seed from superior trees and selecting and propagating outstanding seedlings. The two brothers, S. H. and L. A. Rumph, of Marshallville, Ga., planted seed of the Chinese cling peach. From these progenies S. H. Rumph selected Elberta in 1870 and L. A. Rumph selected Belle of Georgia the same year. For nearly three-quarters of a century Elberta has been the leading peach variety in the United States and probably in the world. A few years later, in 1886, Eugene Hiley, also of Marshallville, introduced the Hiley which probably was a seedling of Belle and which was a leading variety, especially in the South, until recently.

J. W. Steubenrauch, Mexia, Tex., collected varieties from all over the United States and grew large numbers of seedlings. Carman, originated in 1889, proved most valuable.

In part 1 of this series (March, 1961) Dr. Magness paid tribute to the breeders of apples and pears. He will discuss other fruit breeders in subsequent articles.

Dr. Magness, who is internationally known as a horticultural authority, retired as chief of Fruit and Nut Crops Research Branch, USDA, in 1959. He is currently editor of the Proceedings of American Society for Horticultural Science.

Other Steubenrauch varieties are Frank, Tena, Lizzie, Liberty, Anne, Barbara, and Katie.

Perhaps the first of the private breeders to use controlled cross-pollination in peach breeding was J. E. Markham, in Xenia, Ill. Among his introductions are Vivid Globe, Canadian Queen, Markberta, Markham Cling, Mark Late, Globe Haven, Markham Jewel, and Halberta.

The J. H. Hale variety, introduced in 1912 by J. H. Hale, of South Gastonbury, Conn., was found in a shipment of Early Rivers trees from New Jersey. Although its parentage is unknown, one parent probably was Elberta. It became and still is an important commercial variety but even more significant is its great value as a parent. A large proportion of outstanding new varieties developed during the last 30 years have J. H. Hale in their ancestry.

Since the passage of the Plant Patent Act which became effective in 1932, a number of firms and individuals have developed quite extensive peach and nectarine breeding programs, particularly in California. F. W. Anderson, at LeGrand, Calif., has patented and introduced some
(Continued on page 10)



Hydrocooling reduces temperature quickly which retards ripening, reduces respiration, prevents spoilage, and preserves freshness. Maximum quality is the result.



Precooling with the FMC Stericooler extends both the storage and the shelf life of apples.

HYDROCOOL APPLES

For Maximum Quality

Rapid cooling will reduce the load on cold storage facilities, give apples longer shelf life

By **R. D. GERWE and M. A. SLADE**
Research Department, FMC Corporation,
Lakeland, Fla.

THE hydrocooling method of precooling fresh fruits and vegetables is now widely used and for many commodities it is the standard procedure. The method consists essentially of flooding the produce with water at approximately 34° F. while it is conveyed through the unit either in open type containers or in bulk. The rapid flow of cold water over virtually all surfaces of the individual pieces of produce accomplishes very fast transfer of heat.

The efficiency of the unit is dependent upon flow rate and temperature of the water. Depending upon the type and the size of the fruit or vegetable, the period of treatment necessary to reduce the temperature from approximately 85 to 45 to 50° F. ranges from about 10 to 25 minutes. The water may be cooled either by ice or by mechanical refrigeration.

Hydrocoolers are now available in various sizes having cooling capacities ranging from 100 up to 800 or more bushels per hour. Types are

available to handle the commodity in baskets and crates, in bulk, or in pallet type boxes. All of these units may be equipped either for cooling the water with ice or by mechanical refrigeration. In addition, up to a given size, the units may be portable or for fixed installation.

The hydrocooler was developed in California in the mid-1930's but for some years found only limited acceptance. About 10 years later a number of them were put into use in Florida on such produce as celery, cabbage, lettuce, and escarole. With the development of sweet corn in Florida, the hydrocooler was found to be a very necessary factor in the retention of freshness.

Real impetus in the use of the hydrocooler developed when it was found that it could be used to very pronounced advantage on peaches. First work done on this was by the authors of this article and initial commercial hydrocooling of peaches was done in South Carolina in 1947.

Following this and during the latter part of the summer of that year, commercial treatment was extended to Michigan. The use of this means of precooling peaches for the fresh market is now standard practice throughout the southeastern

states and, in fact, in virtually all of the eastern half of this country.

Although the authors suggested some years ago that the hydrocooler might be used with significant benefit as a pre-storage treatment for apples, particularly during warm periods of harvesting, thus far the only apples being so cooled are the summer varieties.

During the fall of 1959 a considerable number of days during the harvesting period in the East and Midwest were unusually warm. It was generally reported that considerable losses occurred not only because the apples ripened too rapidly, but also because in many cases cold storage facilities were not adequate to thoroughly cool the apples as fast as they could be loaded into the cold storage rooms.

It has been reported that a rather high percentage of apple storage plants do not cool apples to the desired storage temperature as rapidly as desired, particularly if they are filled faster than normal. According to the report, thermocouple measurements in the center of the stacks and in the corners showed that storage temperature frequently is not reached until after two to six weeks.

(Continued on page 12)

AMERICAN FRUIT GROWER

"My heart's still in the cherry business"

Here are Leonard Zielke's sentiments after
50 years of growing sweet cherries in
Oregon's Willamette Valley

By D. L. RASMUSSEN

Marion County (Oregon) Extension Agent

"MY heart was in the sweet cherry business when I was a boy, but I really didn't get started on my own till 20 years later." That's the way Leonard Zielke summarizes 50 years' interest and experience with sweet cherries on the family farm 4 miles southwest of Salem, Ore.

The Zielke family moved to Oregon from Nebraska in 1910. One year later young Zielke was initiated into the cherry business as he earned a man's wages picking cherries at 1 cent per pound—\$1.75 per 10-hour day was good money for a 12-year-old boy in those days.

He completed his formal education in a country schoolhouse within sight of the family house—his home for the past 50 years. For 15 years, starting in 1916, he shared the operation of a 120-acre farm with his father. Hogs, cattle, fall wheat, field corn, oats, and vetch hay were the main crops.

During this period there was a conflict in Zielke's mind. His father,

reared in the conventional farm pattern of the Midwest, said, "You have to have hogs and cattle on a farm or quit." But, young Zielke couldn't forget his experiences as a cherry picker, or the neighbor down the road with the 5 acres of bearing sweet cherries.

In 1915 this small cherry orchard had made more money than the Zielke farm. Part of the "cherry money" paid for the neighbor's new Ford. The Zielkes waited several years before they owned a car.

"My Dad was also in the cherry business in 1915," Zielke continued. "Our farm had one Royal Anne tree—planted about 1880-1890—that produced 500 pounds. At 10 cents per pound, that was \$50 from one tree. I said to myself, 'If cherries will produce even 250 pounds per tree, isn't that a better way of farming this soil than raising hogs, grain, and hay?'"

In 1924 Zielke helped plant 3 acres of sweet cherries on a nearby farm, since sold. Finally, in 1930, he planted 6 acres of Royal Annes on what he now calls "the home place." This orchard is on former timber and brush land that Zielke cleared by hand. Modern equipment wasn't available 30 to 40 years ago.

Additional plantings followed in 1945, 1954, 1955, 1958, and 1959 so that Zielke now has 36 acres of sweet cherries, 11 of which are at least 15 years old. He has 3 acres of Italian prunes, and an assortment of pears, apples, and walnuts for family use. Non-agricultural land on the rest of the 55-acre farm has been replanted to Douglas fir trees.

Most of his cherry trees are spaced 30x30 feet, square system. A few are 30x35 feet. Zielke's cherries are non-irrigated. He usually plants a crimson clover cover crop in the early fall and kills it in the spring by disking. Clean cultivation with a spring tooth harrow and clod mashers is used during the dry summer months.



Leonard Zielke examines growth of young Royal Anne tree. Grafts were made this spring.

Both poultry or animal manures and commercial nitrogen fertilizer are used in the cherry orchards. Manure has been broadcast an average of once every third year in the older orchards. In addition, about 1 pound actual nitrogen per tree in the form of 45% nitrogen fertilizer is broadcast under the branches in late winter.

This amount, together with the manure, gives about 6 to 8 inches new growth on the 30-year-old trees and 8 to 10 inches terminal growth on the 15-year-old trees. About $\frac{1}{3}$ pound nitrogen per tree is broadcast under the 6- and 7-year-old trees.

Since soil tests have shown good levels of both phosphorus and potash, neither element has been used in Zielke's fertilizer program. Boron was used one year. The soil on most of the farm is classed as Olympic clay loam. This is one of the major hill-type soils in the Willamette Valley.

Mazzard rootstock has been used for all plantings. The seedlings are headed to about 3 feet at planting time. He selects three or four scaffold branches per tree. These are spaced along and around the trunk. Zielke has done all of his own grafting since 1932. Whip grafts are placed in the scaffold branches about 12 inches from the main trunk. The lowest bud on the graft is pointed away from the trunk.

Bud or grafting wood for 33 acres has been taken from the one heavy-producing Royal Anne tree on the
(Continued on page 19)

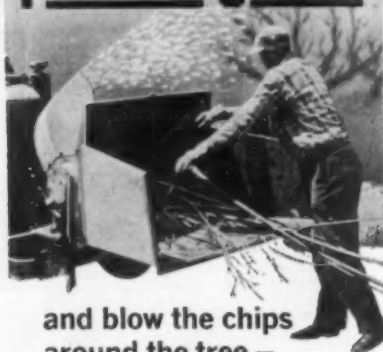


This tree and others in 16-year-old Royal Anne orchard yielded over 8 tons per acre this year.

GET RID OF PRUNINGS

with a

FITCHBURG CHIPPER



and blow the chips
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just where you need mulch

One man and a Fitchburg Chipper—that's the labor saving way to dispose of prunings. Turn prunings into chips and "aim" the Chipper chute under the tree. Chips form a perfect mulch which keeps down weeds, holds in moisture, increases fruit yield and quality.

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Chippers for better
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SAVES TIME—
REDUCES BRUISING
New single fastener and web straps hold bottom tight—yet permit quicker emptying. Heavy canvas over rigid frame protects fruit. Ideal for peaches and easily bruised apples. Write for folder.

LADDERS

for Fruit Harvesting
Step — Straight — Pointed

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End Bird Damage to Your Crops!

WITH THE NEW, IMPROVED MODEL M-2

SCARE-AWAY



Thunderclap EXPLOSIONS
clears fields
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Proven effective against all birds and small animals. Scare-Away brings guaranteed protection to your orchards and crops. Check these features: • Operates for less than 15¢ per day • Rugged all steel heavy duty unit • Uses carbide or acetylene, no wick • Sets at regular or irregular intervals • Service unit only once a day. The M-2 is the loudest and most reliable bird and animal scare device ever made. Retail cost is low. Automatic timer available. Immediate delivery. Freight prepaid from our warehouses at San Francisco, New Orleans, Baltimore, Orlando, Chicago, and Greenville. If no dealer near you, write to:

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OUR FRUIT PIONEERS

(Continued from page 7)

30 varieties, mostly nectarines. Grant Merrill at Red Bluff, Calif., has introduced almost as many.

H. C. Swim, formerly with Ontario Nursery, Ontario, Calif., and now working independently, has developed a dozen varieties—many with low-chilling requirements and adapted to southern areas. W. E. Lammerts, at La Canada, Calif., and W. T. Kirkman, Tracy, Calif., have each originated and named several varieties.

In addition to individuals and firms doing breeding work, many growers and nurserymen evaluate chance seedlings or bud mutations of varieties. A large number of varieties originating in this way have been named and propagated and a number have been patented. Some of these may prove as valuable as kinds originated by breeding.

Breeding of peaches by state and federal research agencies has reached large proportions during the past 50 years. Peach breeding at New York experiment station in Geneva started about 1895. Attempts to develop hardy peaches were begun in Iowa in 1905 by S. A. Beach. C. S. Crandall began work in Illinois in 1907.

In the same year work was started at Citrus Experiment Station, Riverside, Calif., by E. B. Babcock, C. O. Smith, and H. B. Frost to develop peaches of low-chilling requirement adapted to southern California. C. H. Conners started the New Jersey work in 1914. In that year work was also started at Vineland, Ont., by E. F. Palmer and G. H. Dickson.

Since 1920 several additional states and the USDA have initiated peach breeding work.

Some of these programs are relatively new but several have contributed immensely to our present important varieties.

The New Jersey work under the leadership of the late M. A. Blake and now of Fred Hough has resulted in more than 30 named varieties. Golden Jubilee, Jerseyland, Afterglow, Goldeneast, Ambergem, Cumberland, Sunhigh, Triogem, Raritan Rose, and M. A. Blake are most important.

Among varieties developed by Stanley Johnston in Michigan are Redhaven, now a leading variety in nearly all parts of the United States, as well as Halehaven and more recently Richhaven and Sunhaven.

The Illinois work, formerly led by Max Dorsey and now by James Mowry, has resulted in the naming of several varieties which have "Prairie" as part of their name.

The Vineland, Ont., experiment station has introduced the "Vee" varieties of which Valiant, Vedette, Veteran, and Veefreeze are important, especially in northern areas. The varieties Spotlight and Solo from Summerland, B.C., are reported hardy and very promising.

The Maryland experiment station developed Redskin which is rapidly replacing Elberta as a fresh market peach, particularly in eastern and midwestern districts. The Missouri station at Mountain Grove, under Paul Shepard, has named several varieties of which Loring seems outstanding. Babcock is the best-known of the low-chilling varieties developed at the California station at Riverside.

The Virginia experiment station in Blacksburg, under the direction of George C. Oberle, has recently named several promising varieties including Washington and Jefferson peaches and Cavalier and Redchief nectarines.

The late W. F. Wight of the USDA, working at Palo Alto, Calif., named more than a dozen peaches—mostly canning clings. Andora, Carolyn, Corona, Cortez, Fortuna, and Vivian, developed by Wight and his assistant, Lester Thompson, are now important canning varieties in California. The work in California is now under the leadership of J. H. Weinberger at Fresno. Suncrest and Regina varieties have been named recently.

A conspicuously successful program has been conducted by the USDA at Fort Valley, Ga., since 1936, first by J. H. Weinberger and now by Victor Prince. Varieties developed in this work have largely replaced kinds previously grown in the Southeast. Important are Dixired, Coronet, Maygold, Southland, Cardinal, Redcap, and Keystone.

From the USDA work at Beltsville, Md., under Leon Havis, has come Ranger, Redglobe, and recently Earlired. Also, in co-operation with Washington experiment station at Prosser, Earlihale was named.

In addition to the many actively breeding peaches and nectarines, a word should be said for workers both in industry and in experiment stations who are evaluating the numerous new varieties developed. New peaches are being named at a rapid rate and the task of determining which will "make the grade" in commercial production is a large one. We can be assured, however, that our peach varieties will steadily improve as a result of the extensive breeding programs under way.

What about the breeding of nectarines? These "smooth-skin

This mark tells you a product
is made of modern, dependable Steel.



These Stainless Steel tanks have worked a 60-hour week for seven years—



yet they're like new

The NH_3 Service Company of Salinas, California, uses 18 Stainless Steel applicator tanks attached to tractors to apply liquid mixed fertilizer and phosphoric acid* solutions on vegetables and orchards. NH_3 Service Company prefers Stainless Steel tanks because they're strong, need hardly any maintenance. And they *really* last—the tanks are seven years old, yet they're like new.

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* AISI Type 316 Stainless Steel recommended for handling phosphoric acid.

You can take advantage of this professional experience in your own liquid fertilizer program. Stainless Steel tanks cost a little more at the start, but they out-perform and outlast ordinary containers. So, Stainless tanks are a lot more economical in the long run. For more information about them, send the coupon. For Stainless Steel, call your nearest Steel Service Center.

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Stainless Steel

TRADEMARK

SEPTEMBER, 1961

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12

1000 bushels by 40 degrees, as for instance from 85 to 45° F., rapidly by means of the hydrocooler requires the removal of approximately 1,132,800 btu. This corresponds to using about 4 tons of ice. Based upon the above figures of heat of respiration, it might be estimated that slow cooling over a 24-hour period would necessitate the removal of approximately twice as many btu's as for fast cooling.

Although this is no more than an approximation, it is indicated that quick cooling will require substantially less refrigeration than slow cooling in the storage room. Of even greater importance, hydrocooling very possibly can be of material aid in preserving maximum quality of storage apples, and can extend their market life.

THE END.

Calendar of Coming Meetings & Exhibits

Sept. 14-16—Texas Citrus & Vegetable Growers & Shippers Convention, Shamrock Hotel, Houston.

Sept. 19—Citrus Processors' annual meeting, University of Florida Citrus Experiment Station, Lake Alfred.

Sept. 27-29—Florida Fruit & Vegetable Association convention, Hotel Americana, Bal Harbour.—J. Abney Cox, General Convention Chairman, Princeton.

Oct. 1-4—Produce Packaging Convention and Exposition, Chase-Park Plaza Hotels, St. Louis, Mo.—Robert L. Carey, Exec.-Sec'y, Produce Packaging Association, P. O. Box 29, Newark, Del.

Oct. 4-5—Horticultural Plastics Conference, Hotel Roanoke, Roanoke, Va.—Dr. P. H. Massey, Jr., Virginia Polytechnic Institute, Blacksburg.

Oct. 12-21—National Apple Week.—Norbert Eachmeyer, Manager, National Apple Week Association, 1302 18th St., N. W., Washington 6, D. C.

Oct. 29-Nov. 1—National Agricultural Chemicals Association annual meeting, The Homestead, Hot Springs, Va.—L. S. Hitchner, Executive Sec'y, 1145 19th St., N. W., Washington 6, D. C.

Oct. 30-Nov. 2—Florida State Horticultural Society annual meeting, Barcelona Hotel, Miami Beach.—Ralph P. Thompson, Pub. Sec'y, Winter Haven.

Nov. 6-7—Washington State Weed Conference, Chinook Motel & Tower, Yakima.

Nov. 15-17—Oregon State Horticultural Society annual meeting, Oregon State College, Corvallis.—Andrew A. Duncan, Sec'y, Oregon State College, Corvallis.

Nov. 20-21—Illinois State Horticultural Society annual convention, Abraham Lincoln Hotel, Springfield.—Bob Rogers, Sec'y-Treas., 305 W. Walnut St., Carbondale.

Dec. 4-6—Washington State Horticultural Association annual meeting, Liberty Theater, Wenatchee.—Dr. John E. Snyder, Exec. Sec'y, Washington State University, Pullman.

Dec. 11-14—Weed Society of America's North Central Weed Control Conference, Jefferson Hotel, Memphis, Tenn.—K. P. Buchholz, Pres., University of Wisconsin, Madison.

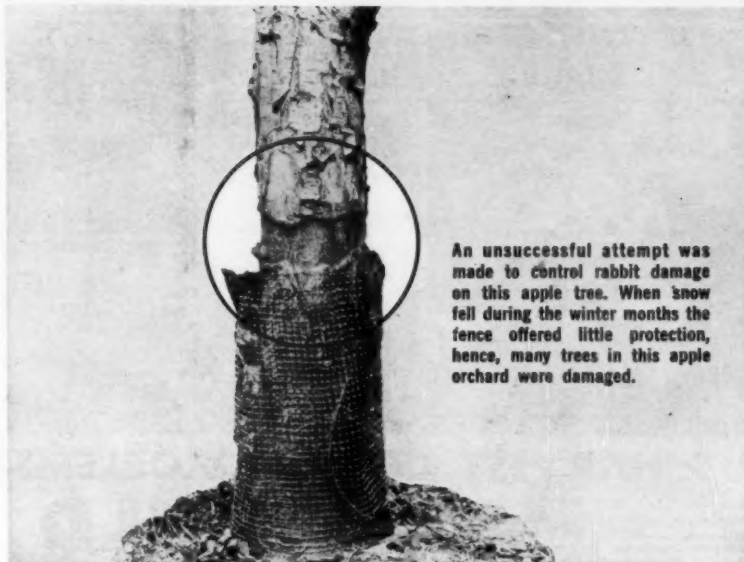
Jan. 22-27, 1962—New Jersey Farmers Week, Trenton.—Phillip Alampi, Sec'y, New Jersey Department of Agriculture, Trenton 25.

Jan. 31-Feb. 2—Ohio State Horticultural Society annual meeting, Netherlands Hilton Hotel, Cincinnati. C. W. Ellenwood, Sec'y, Rt. 2, Wooster.

Feb. 25-28—National Peach Council convention, Traymore Hotel, Atlantic City, N.J.—Carleton Heritage, Pres., Box 516, Carbondale, Ill.

May 3-5—Shenandoah Apple Blossom Festival, Winchester, Va.—J. K. Robinson, Pres., Winchester.

SEPTEMBER, 1961



An unsuccessful attempt was made to control rabbit damage on this apple tree. When snow fell during the winter months the fence offered little protection, hence, many trees in this apple orchard were damaged.

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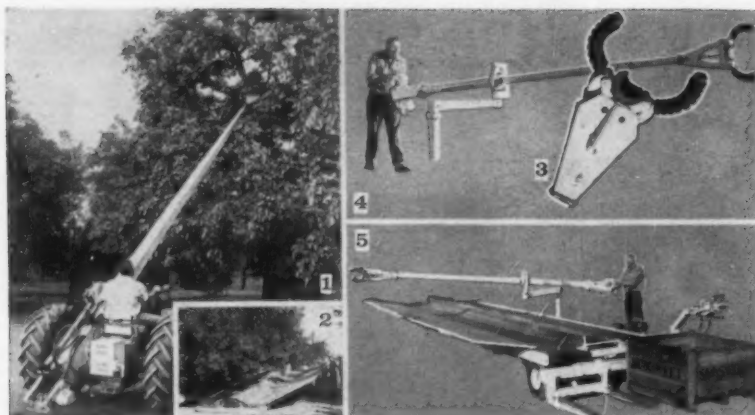
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Picture No. 2. Gould Self-Propelled Low-Profile Catching Frame in use in a prune orchard.

Picture No. 3. New "Tender Bark" No-Twist Claw. Grips tenderest limbs gently.

Picture No. 4. New Gould "Bear Cub" Free-Swinging Shaker. Comes in "Mount-it-yourself" kit. Attach to your own tractor, jeep, catching frame, etc.

Picture No. 5. New Gould Combination Shaker and Catching Frame. Self-propelled. Hydraulic. Consists of Gould Catching Frame with Bear Cub Shaker mounted on it. All you need for a complete fruit-harvesting operation.

Throw away the ladders and the buckets. 100% mechanized fruit harvesting is here. The Gould Hydraulic equipment shown above can satisfy the needs of any size orchard, any size budget. Soft fruits, such as apricots, cherries, peaches, olives, prunes, all can be successfully harvested with Gould equipment. Write for full information.

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New sport of sports which has established a definite color pattern by the latter part of June. Attains full color even in most shaded part of tree, and a glowing deep overall red finish color with a narrow "pin" stripe. Permits one picking of all fruit at earliest maturity, eliminates color picking.

Outstanding new spur-type, semi-dwarf Red Delicious sport with early, heavy annual production. The apple colors early, is a bright bluish red and of good type. Finish color retains its bright attractive red color even after several months in storage.

Starts coloring early, even in the most shaded part of the tree. The intense sparkling cherry red finish color is at its best when the maturity of the apple also is at its best . . . and finish color at maturity means greater profit. Excellent storage keeping quality.

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STONE FRUITS

Mechanical Apricot Harvest

APRICOT growers who have been increasingly concerned about getting their crop picked and at the right time need not worry any longer. A machine is now on the market which can harvest the fruit at the rate of approximately two trees per minute. What's more, it leaves the 'cots in excellent condition.

The mechanical harvester is an inertia shaker mounted on one part of



The right half of the Gould catching frame moves between trees with the operator at the controls. See the front cover for a picture of the inertia shaker removing 'cots from tree.

a two-section catching frame. Each half of the catching frame is self-propelled and operated by one man. With a third worker for handling boxes and a fourth for operating the variable stroke shaker, the harvest can be completed quickly and with a minimum of labor.

The harvester has been tested for four years in co-operation with the manufacturer, Gould Bros., Inc., of San Jose, Calif., and University of California. Similar equipment has proven successful in harvesting prunes, olives, and sour cherries.

PEARS

New Bartlett Strain

A BARTLETT sport, known as the Stewart strain after its discoverer, Howard Stewart, has passed severe testing for blight resistance with flying colors.

Stewart first saw the sport limb of the blight-resistant Bartlett nearly 10 years ago. Then, five years later, he noticed that the limb was more vigorous in growth, had more and greener leaves, bore more heavily.

At Washington State University Tree Fruit Experiment Station, where the sport has been under test, researchers believe this strain may replace blight-susceptible Bartlett.

AMERICAN FRUIT GROWER

FRUIT-O-SCOPE

SPECIAL MARKET REPORT SEPTEMBER, 1961 AMERICAN FRUIT GROWER

Congratulations to Processed Apples Institute which just celebrated its 10th anniversary. Since 1951 when the Institute began to promote apple products, the demand for applesauce has more than doubled ...the demand for canned apple slices has increased 34%...and the consumption of apple juice has soared to an unbelievable 161%. Nice going!

Fruit imports should be up this year due to reduced apple and pear crops in most European fruit growing areas. Top-quality apples will be in especial demand.

Members of Great Lakes Cherry Producers Co-operative Association have something to crow about. Their entire crop of approximately 130 million pounds of red tart cherries has been contracted for by processors. The price: 8½ cents per pound.

What's the outlook for U.S. peach production? In California acreage has increased from 46,000 in 1958 to 51,000 in 1960 and 56,000 in 1961. It looks like the upward trend will continue this year for both clings and freestones in California...and for the nine southern peach states.

Interested in low-fat, cholesterol-reducing diets? Read Ancel and Margaret Keys' new book, "Eat Well and Stay Well." He's the same Dr. Keys who gave national publicity to the apple as an aid in reducing cholesterol levels in the blood.

Can you get all-risk crop insurance for peaches? Not unless you're a peach grower in Spartanburg County, South Carolina. That's the only area covered by the Federal Crop Insurance Corporation. Because of problems in underwriting and loss adjustment in this experimental program, there are no plans for expansion of insurance on peaches in the immediate future.

A look into the crystal ball: Watch for full VIP treatment of Florida grapefruit next season. This leads to the prediction that Florida Citrus Mutual will use the new stabilization amendment of the Florida citrus code to push grapefruit sales.

Ohio State's Freeman Howlett sees roadside stands and farm markets as the greatest hope for continued fruit production in Ohio. Well-colored, attractive apples and peaches in good condition are a "must," Howlett says, but final sale rests upon the grower's reputation for integrity.

The popularity of the Delicious apple will decline during the next 10 years, predicts Paul H. Shepard, well-known horticulturist. He believes consumers will want a more versatile apple and growers will want to sell to processors if necessary. Some possible candidates: Idared, Beacon, Cortland, Secor, Ruby, Melrose, Spartan.

SEPTEMBER, 1961

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STATE NEWS

The Business Side of Fruit Growing

ILLINOIS

IAA Meeting

THE 1961 apple crop is estimated at 121,880,000 bushels, 10.8% larger than last year and 3.3% above the five-year average. This report was made at the 67th annual meeting of International Apple Association in Chicago.



White

Despite the over-average crop, industry leaders aren't worried. They feel it's manageable in view of their plan for the biggest apple promotion push in the history of the industry. Other factors that should be helpful in moving the deal are an increase in U. S. population of 3 million over last year and a smaller Canadian apple crop.

Holland F. Patterson, Michigan State Apple Commission, set the total fund for merchandising the 1961 crop for the industry as a whole at \$2 million. He estimated that the money spent will provide 2½ billion consumer impressions, figuring newspaper advertising, TV, radio, point-of-purchase pieces, etc. In addition, 30,000 retail calls by industry representations are planned.

During the convention, Jere G. White, Riverton, N. J., was unanimously elected 1961 IAA president. He is manager of Jersey Fruit Co-operative Association. Also elected were C. J. Dougherty, Philadelphia, Pa., treasurer, and John D. Neff, Staunton, Va., sergeant-at-arms.

HAWAII

Papaya Industry Threatened

PAPAYA growers on the island of Hilo fear that a proposal to reduce freighter service may mean the death of their industry. The ships now call once a week for the highly perishable fruit. With the proposed change in the schedule, stops would be at least two weeks apart and canneries cannot handle the surplus.

Industry representatives are petitioning the Federal Maritime Board to postpone the change so that growers might gain help from Washington congressmen and state legislators.

Excluding independent growers,

the industry employs about 150 people. With 50% greater acreage this year than any other year, they are shipping up to 8000 10-pound cases every week averaging \$75,000 each month.

CONNECTICUT

Dwarf Rootstock Booklet

GROWERS and horticulturists met at University of Connecticut in June to attend a symposium on size-controlling apple rootstocks and to pay tribute to Prof. Howard A. Rollins, who retired last January. The symposium papers and other research



Prof. Rollins inspects Red Delicious apple tree on M VII in University of Connecticut orchard.

on dwarf apple rootstocks have been compiled in a booklet and dedicated to Prof. Rollins in appreciation for his years of service to the fruit industry.

Copies are available for \$1 from Arley Backlund, Agricultural Editor, University of Connecticut, Storrs, Conn. Checks should be made out to University of Connecticut.

WASHINGTON

Assessments Increased

THE Washington State Fruit Commission recently revised the promotion and research assessments on Washington Bartlett pears, cherries, and fresh apricots. The soft fruit assessments this season per ton will be \$2 on Bartlett pears, \$4 on cherries, and \$1.80 on apricots.

The increase was voted following years of rising costs and decreasing income for the commission's industry work.

Chairman Ray Redman, Jr., expressed the commission's attitude: "We were reluctant to increase assessments because we have personal knowledge of the fruit grower's cost-price squeeze. At the same time, we know full well that our soft fruits must be promoted with the same vigor we fertilize, spray, prune, and conduct other ranch operations. In fact, if we don't promote our fresh and canned fruits all the effort and expense put into producing them can be wasted."

NORTH CAROLINA

More Strawberries

THERE will be increased strawberry production in the Tar Heel state if others follow the lead of L. L. Barnes, of Elizabethtown. He is currently clearing land to plant 20 acres of strawberries and hopes to be producing as many as 75 acres in a few years.

Present plans are to market them through American Foods, Inc., in Burgaw. Barnes also has several acres of cultivated blueberries which he is contracting to market through American Foods.

OHIO

Comin Killed

DONALD COMIN, of Ohio State University and Agricultural Experiment Station, was fatally injured in an automobile accident in Wayne County on June 22. A respected member of the horticulture staff since 1925, Comin received his B.S. degree in agriculture from University of California and his M.S. degree from Ohio State.



Comin

Don Comin was active in the field of both fruits and vegetables and was keenly interested in the engineering aspects of horticulture. Just before his death, he and John M. Allis, registered architect, collaborated in the preparation of plans for a fruit and vegetable cooler for AMERICAN FRUIT GROWER and AMERICAN VEGETABLE GROWER readers.

In addition to his work at the station and on the faculty of the university, Comin was federal inspec-



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Ideal for use with new polyethylene shrink-wraps that provide positive tree-to-table protection. The combination of shrink-wrap and the Keyes new Ful-Vue Pak immobilizes your fruit so they cannot bump or bruise. Open ends allow proper air circulation.



This is a case for the S.P.C.A.

No self-respecting apple should be banged around this way. That's why the S. P. C. A., The "Society for the Prevention of Cruelty to Apples," recommends that all true apple lovers protect their apples with Kys-Pak®.

As was proven in a recent transcontinental test shipment, Kys-Pak provides up to three times better protection than the other two leading types of packs. Kys-Pak provides superior protection because it cradles each apple in a separate ventilated compartment where it is completely insulated against shock. Each Kys-Pak tray is oil treated to prevent scald and colored to give your fruit maximum sales appeal.

Kys-Pak is made of strong, molded pulp and is available in sizes from 48 to 216 count.

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Rigid frame, canvas covered bucket designed especially for peaches and easily bruised apples. Excellent for other fruits. Stiff front stays protect against ladder. Top large enough for picker to lay fruit in carefully. Bottom is quick release type.

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"How-to Book on Strawberries"

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American Fruit Grower
Willoughby, Ohio

tor in the Wooster district, and consultant to Ohio Farm Bureau Federation, United Co-ops, Inc., and the local locker plant.

FLORIDA

Popular Peach

WITH the planting of 22,000 new Maygold trees in the Quincy area, Gadsden County's peach acreage has been doubled. The outstanding characteristic of the new variety is its relatively low-chilling requirement. It requires about 650 hours of temperatures below 45° F. by February 15 for normal production of flowers, which averages 100 hours less than Hiley and Redcap varieties.

Other varieties with low-chilling requirements can be grown in the area, but they are inferior to Maygold in quality. Maygold is a medium-sized fruit of the clingstone type, firm yet melting.

The growers in the area have al-

ready organized a peach producers' co-operative. Under the co-operative, a grower is permitted the use of special equipment, which lessens individual outlay. The cost of orchard establishment until bearing time is estimated as low as \$125 per acre.

The Gadsden growers feel the true test of their new peach enterprise will come in two years, when the fruit of recent plantings reaches market.

CALIFORNIA

Peach Bonus

THREE major companies in the canning field have announced they are paying the competitive bonus of \$12 a ton on cling peaches.

Hunt Foods was the first to offer the bonus because the \$55-a-ton set price was violated by under-the-table payments by other canners. Both Stokely-Van Camp and Libby McNeil & Libby are also meeting the higher price.

PACKAGING & MARKETING



APRICOT PROMOTION ADVANCED

George Lampert and Vince S. Garrod, officers of the newly formed Apricot Producers of California, look on while California Director of Agriculture Charles Paul inspects a consumer pack of fresh apricots, ready for the market.

age at 31 to 32° F., compared with losses in weight and shriveling of from 4 to 7% where apples were packed in nonsealed and perforated liners.

Researchers give these pointers to growers using poly box liners for Golden Delicious:

- Specify 1.5-mil gage polyethylene with density of about 0.914 to 0.925. (Too thick films can suffocate fruit.)
- Use liners only for apples going into storage for three months or more.
- Avoid packing overmature apples.
- Avoid packing warm fruit in film liners. Some precooling before packing is desirable.
- Use oiled wraps or chemical scald inhibitors to give added protection against storage scald.



Courtesy USDA

Golden Delicious apples packed in polyethylene liners (right) have a longer marketing season.

AMERICAN FRUIT GROWER

Apple Season Extended

POLYETHYLENE box liners, which prevent moisture loss and shriveling, can extend the marketing season for Golden Delicious apples.

USDA Agricultural Market Service researchers, studying sealed, non-sealed, and perforated liners, recently demonstrated the effectiveness of the poly liners in field boxes and in wood and corrugated packing boxes.

They found that sealed poly liners work best. Apples packed in these liners lost less than 1% of their original weight after six months of stor-



By HENRY BAILEY STEVENS

Straight Talk on Harvest Labor FOREIGN contract labor can well be termed "foreign aid at its finest;" it costs the taxpayer nothing and puts the money directly into the hands of the worker, definitely improving the standard of living of his family. At the same time it provides the fruit industry with competent, reliable help.

This was one of many sage observations in the talk on harvest labor by Charles Toan at the annual meeting of Virginia State Horticultural Society in Roanoke. The hard-hitting secretary-manager of Frederick County Fruit Growers Association also advised:

"We must put our own house in order. By that I mean improve our own migrant housing both in quantity and quality. Pay fair wages for work performed. Your wages and piecework rates must be realistic, reflecting a proper earnings opportunity to the worker.

"It will be easier and cheaper to do some of these things in the manner that will suit us and not be forced to do it by demands of organizers with no monetary stake or by blanket legislation that does not meet our particular situation. We must utilize all local sources of labor (day-haul, teen-age, and other) in a conscientious, straight-forward manner, even though using such sources only to the extent that is practical and yields favorable results.

"The earning records disprove the statement that we are using 'slave labor.' In many cases apple pickers are earning more than factory workers. But only you can put this point across.

"You must utilize every opportunity to point out to the public, civic groups, newspapers, all mediums of communication what our problems are. You as growers must participate on all possible committees concerned with the situation. You can exercise a sobering, practical influence.

"A strictly defensive approach, fighting off the proposals of other groups, while often necessary, is not enough to win the battle. We must

Address your "Windfalls" contributions to Henry Bailey Stevens, AMERICAN FRUIT GROWER, Willoughby, Ohio.

SEPTEMBER, 1961

counter actively with new methods, new ideas.

"Labor brings to their meetings and committees extremely able men, fluent speakers, completely familiar with the problems. They cannot be shrugged off as 'illiterate thugs;' they are dedicated, articulate individuals with a goal and a purpose. Our only solution is to be equally well prepared when we meet them."

CHERRY BUSINESS

(Continued from page 9)

farm in 1910. The other 3 acres have been propagated with virus-indexed A-10 Royal Anne scionwood now being used by most orchardists in Oregon.

Growth from the grafts is controlled by summer pruning. This includes pinching the terminal buds in early summer to encourage lateral branch development. After scaffold branches are selected, Zielke does a minimum of pruning.

Zielke follows the disease and insect control program recommended by the Oregon State University experiment station and extension service. Pest control materials cost about \$65 per acre per year. He makes 13 trips over the bearing orchard each year in following a thorough insect and disease control program. Major pests are black cherry aphids, syneta beetles, brown rot blossom blight, and cherry fruit flies. He uses both a sprayer and duster for pest control.

The crop this year averaged $4\frac{1}{4}$ tons per acre. About 11 acres of trees at least 15 years old yielded 7.3 tons per acre.

Pickers are local residents and out-of-state professionals, some of whom return for the harvest every year. On-the-farm housing is provided for some of them.

The harvest season lasts about 15 days. This season Zielke paid pickers \$1.20 per box averaging 30 pounds of cherries. The average picker earned \$15 to \$20 per day with the best workers earning \$20 to \$25. One couple earned \$720 for a 17-day harvest season. Zielke's output for pickers' wages was \$7300 this year.

During the past 20 years Zielke's cherries have brought him the local cash prices, 6 to 14 cents per pound, plus patronage dividends from his membership in Willamette Cherry Growers, Inc., a growers' co-operative. Zielke says that having the proper site is 75% of having a successful cherry orchard in western Oregon. Good soil with proper air and water drainage are essential for success.

"After 50 years in Oregon, my heart is still in the cherry business. Cherries have been good to me," concludes Zielke. THE END.

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Magazine to our readers

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Willoughby, Ohio

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How can you keep them cool? By building an 8x8x16-foot cooler, designed especially for you by registered architect John M. Allis in



collaboration with the late Donald Comin, widely known Ohio State University storage investigator.

Included with the set of plans is a complete list of materials and estimated cost of construction.

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GROWERS OPPORTUNITY PAGE

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RUN A SPARE-TIME GREETING CARD and Gift Shop at home. Show friends samples of our new 1961 Christmas and All Occasion Greeting Cards and Gifts. Take their orders and earn to 100% profit. No experience necessary. Costs nothing to try. Write today for samples on approval. REGAL GREETINGS, Dept. 16, Farmdale, Michigan.

APPLE PACKING EQUIPMENT

BRUSHER, 36" BEAN 30" BEAN 24" NIAGARA 24" Friend with suction fan. C. C. MAST COMPANY, 2320 Jefferson, Quincy, Illinois.

ASSISTANT SALES MANAGER POWER SPRAYERS

HEAD UP SPRAYER SALES DIVISION. Must be able to train personnel including dealers. Man selected will plan expansion of sales force through specialized salesmen. Prefer experienced man in sprayer field or farm implement experience with Ag Engineering background. Well established firm. Strong national advertising and promotion support. Salary open. Mail complete resume to Personnel Department, THE F. E. MYERS & BRO. CO., Ashland, Ohio.

AUCTION SCHOOL

LEARN AUCTIONEERING. FREE CATALOG! MISSOURI AUCTION SCHOOL, 1330 Linwood, K.C., 9-X34, Mo.

BEEES

INDOOR OBSERVATION BEEHIVES—FASCINATING, entertaining, educational. Free bee literature. BEE HOBBYIST, Box FG-183, Edmond, Oklahoma.

BERRY GROWERS

FOR THE ULTIMATE IN PACKAGING WE offer our fine boxes combining the strength of modern box board with distinctive design. The appealing green exterior contrasting sharply with the clean white interior imparts an assurance of quality to the consumer. For the price of the ordinary you can use the finest. Write for prices and our quart and pint sample package. You will find us prompt and courteous. THREE G BOX COMPANY, 2906 10 Mile Road E., Rockford, Michigan.

BOOKS

DRUG MEDICINES DISAPPOINT. DISILLUSION. Why defeat nature's spontaneous recovery efforts? New 25¢ book, MEDICINES OF NATURE describes seven universal curatives freely available everywhere. M-PRESS, Coalmont 143, Tennessee.

TIPS ON STRAWBERRY GROWING ARE contained in our all new, revised How-To Book on strawberries. \$1.50. AMERICAN FRUIT GROWER, Box 159, Willoughby, Ohio.

MODERN FRUIT SCIENCE. MOST Complete and up-to-date book on planting to marketing of deciduous tree and small fruits and nuts. HORTICULTURAL PUBLICATIONS, Rutgers University, New Brunswick, N.J. 910 pp. 1961. \$7.50.

FREE CATALOGUE. ELECTRIC PRODUCTS for home, farm, industry. D. FELICE, 5018 N. 16th St., Philadelphia 41, Pa.

BUSINESS OPPORTUNITIES

FREE PICTURE FOLDER. "HOW TO MAKE \$3,000 Yearly. Sparetime. Raising Earthworms!" OAKHAVEN-25, Cedar Hill, Texas.

MAKE BIG MONEY RAISING RABBITS FOR us. Information 25¢. KEENEY BROTHERS, New Freedom, Penna.

A SECOND INCOME FROM OIL CAN END your toil! Free book and oilfield maps! NATIONAL PETROLEUM, Pan-American Bldg-AFG, Miami 32, Florida.

CIDER MILLS—PRESSES

MODERN AUTOMATIC ELECTRIC CIDER presses for roadside stands and small orchardmen. Presses 10 gallon to 15,000 gallon capacity. Everything for the cider maker, ball bearing graters, press racks, cloths, packing, valves, filters, pasteurizers, bottling equipment. Write for supply catalogue. W. G. RUNKLES' MACHINERY CO., 185 Oakland St., Trenton 8, N.J.

ORIGINAL MANUFACTURER HYDRAULIC juice presses, hand and power operated, designed for small and large volume production. Press cloths, press racks, packings, valves, filter cloths and other supplies. THOMAS ALBRIGHT COMPANY, Goshen, Ind. Phone KE 3-6263.

HYDRAULIC CIDER PRESSES, PALMER style, especially suited to roadside stands and orchard use. Modern, easy to clean. High speed ball bearing graters, plastic linings, tanks, pumps, all supplies including preservatives, cleaning compounds, racks, cloths, etc. Catalog available. ORCHARD EQUIPMENT AND SUPPLY CO., Hill Street, Bristol, Connecticut. Phone LU 2-7848.

NEW AND USED CIDER PRESS AND PROCESSING equipment. Complete line to offer including stainless steel tanks, orchard service, industrial hose, press cloths, press racks, packings. Write for supply catalog. DAY EQUIPMENT CORP., 118 West Lafayette St., Goshen, Ind., Phone Keystone 3-5903.

MT. GILEAD CIDER PRESS 36" RACKS washer elevator \$350. Trescott apple sizer rolling table, brusher \$350. 225 gal. S. S. elevated tank with gravity filler \$250. WEICHEL FRUIT FARM, Castalia, Ohio.

GRAPE CRUSHERS AND APPLE GRINDERS orchard and hard presses, cloths. LOBSINGER BROS., Mildmay, Ontario.

FOREMAN

SOUTHERN OHIO ORCHARD. 1600 peaches, 2000 apples. House furnished. Must be willing to work. Non-drinking man. Ulysses 2-1811. 2136 U.S. 50, R #3, Batavia, Ohio.

FOR SALE—EQUIPMENT & SUPPLIES

USED SPRAYERS TAKEN IN TRADE ON new John Bean equipment. 2 Buffalo Turbine air machines and 2 hydraulic, 600 pound pressure machines. One engine powered and one PTO row crop. Both in excellent condition. Reasonable. KWH mist blowers, FMC graders, washers, packing house equipment. Shur-Leak Sequa-Matic irrigation, power and hand pruning tools, supplies, parts and service. NORTHEASTERN OHIO'S JOHN BEAN DEALER. LANPHEAR SUPPLY DIVISION OF FOREST CITY TREE PROTECTION COMPANY, 1884 S. Green Road, Cleveland 21, Ohio. Phone EV 1-1700.

APPLE GRADERS. CUSTOM BUILT FOR small, medium or large growers. Complete graders from \$262.00 up. Contact your local dealer or write. MIDWESTERN MACHINE CO., Belding, Michigan.

HAVE YOUR OWN AIR CONDITIONED cold storage. Consult experienced engineering concern specializing Fruit Storages. Postal card reply O.K. LEE R. KANAGA, 67 Hurlburt Ave., Akron 3, Ohio.

FOR SALE: YORK AMMONIA COMPRESSOR, self contained unit, size 5 x 5, 2 cylinder, 20 h.p. 220-440 volt 3 phase motor. Condenser is only one year old. Price \$500.00. LAWRENCE J. SMITH, 78 Milltown Road, East Brunswick, N. J.

FOR SALE: HEAVY DUTY ALL STEEL reverse flow (2 way) belts for large or small packing houses. 10' to 60' lengths—may be lengthened at any time. Competitively priced. Write MIDWESTERN MACHINE CO., Belding, Mich.

WATER SUPPLIES, INC. DEALERS FOR Myers power sprayers. Largest stock of new and used power spraying equipment in Ohio. Let us know your needs. WATER SUPPLIES, INC., P. O. Box 547, Ashland, Ohio—Phone 21565.

PLASTIC BAGS FOR ALL USES—PACKAGING products for all applications. LISBON PRODUCTS COMPANY, Box 133, Lisbon, Ohio.

4 SKATE WHEEL CONVEYORS 10'; 1 SKATE wheel conveyor 5'; 1 Dumper for picking boxes. 1 basket turner. Several facing forms and tubs for 1/4 and bushel baskets. 1 40-bushel Trescott peach brush and grader, complete with 4 HP motor. With good fruit this will handle 80 bushels per hour. (This machine will also polish and grade apples.) Several bundles of liners and cushions. ALL OF ABOVE IN EXCELLENT CONDITION. Any reasonable offer considered. W. L. CLARKE, Lottsburg, Va.

WEED TORCH HAS 99 USES. SPLITS Giant rocks, disinfects, destroys tree stumps, burns kerosene. Free literature. SINE, F72, Quakertown, Pa.

FOR SALE: I-40, I-500 CP-I-36 SPEED sprayers. I-35T, I-35TR, I-20MT, I-48, I-30TR Myers. I-30TR Hardie. I-50 engine driven Friend. I-35 gal. Royal Bean pump. I-ironage pump. Bean No. 7 and Niagara cleaners. 18" Grabbill grader. Cherry seeder. New and used bomber tires. 60,000 new crates. CORY ORCHARDS, Cory, Indiana.

GRABILL PEACH GRADER—A-1 CONDITION. Complete with motors, brushes, duster, 3 sorting tables, cull conveyor belt. CARL SORGEN, R1, Box 437, Port Clinton, Ohio.

SAVE—GRADERS, WASHERS, BRUSHERS, baggers. Combination welding, brazing outfits \$98.50. STORY EQUIPMENT, Parkertown, N.J.

FOR SALE: HARDIE DF-24B, 400 GAL. demonstrator. New Guarantee—Hardie OMI Mix Concentrate 300 gal. Excellent condition. Inexpensive. BENHAM SUPPLY CO., 530 McDonald St., Elkhart, Ind.

NIAGARA BRUSHER (16") GOOD CONDITION. ORCHARDIST, ST. Meinrad Archabbey, St. Meinrad, Indiana.

BEFORE YOU BUY CHAINSAWS OR SAW chain, send for free copy of CHAIN SAW AGE MAGAZINE, Dekum Bldg., Portland 4, Ore.

GARDEN SUPPLIES

PROTECT YOUR BERRY CROPS, VEGETABLES. Cheesecloth 100 yards by 39". Convenient, 10-yard lengths. \$7.50, \$8.50 West Mississippi prepaid. 50% less mill price. JOSEPH HEIN, 120 Eton Road, Thornwood, New York.

HAIR CARE

GRAY HAIR LIQUID IMPARTS COLOR TO gray or faded hair \$2.50. Rotor clips unwanted hair in nose and ears \$1.15. Postpaid. FENDRICK'S, 114 North 6th Street, Allentown, Penna.

HELP WANTED

MARYLAND PEACH-APPLE OPERATION with million dollar annual sales has unusual opportunity for a Sales Manager with real administrative ability. Must have a good record and background. Give full particulars as this will be held in strictest confidence. Address: AMERICAN FRUIT GROWER, Box 223, Willoughby, Ohio.

LABELS

LABELS—ALL TYPES—PLASTIC BAG Inserts. Prompt service. Economical prices. Write for free quotation and samples. HARRIS & CO. "LABEL MANUFACTURERS", 1093 Cleveland St., Salem, Ohio, Phone ED 2-4127.

MISCELLANEOUS

BANANA PLANT, GROWS ANYWHERE—indoors, outdoors. \$1.50. Postpaid. SOPHIA SULEN, Ladylake, Fla.

WINE—BEER—ALE RECIPES. FOR HOME use. Send \$1.00 to HOWE, Box 9031, S. Lansing 9, Michigan.

QUICK-JOHN FOR SEPTIC TROUBLES. New, exclusive enzyme-bacterial formula digests solids, grease, paper, etc. Ends backups, odors, pumping, digging. Harmless to plumbing. Six treatments in handy flush packets, \$2.50 postpaid; 12, \$4.50. Also Green Label Quick-John for OUTDOOR TOILETS! Reduces bulk, paper. Stops odor. Easy, economical \$2.50 postpaid; average year's supply, only \$4.50. Money back guarantee! RYTER CO., Madelia 102, Minn.

"35 HOMEMADE RECIPES" BEERS, wines. \$1.00. DOMINAE, Box 584-F, Ft. Wayne, Ind.

OF INTEREST TO WOMEN

PLASTIC FREEZER CONTAINERS. SQUARE pints, \$9.95; quarts, \$15.00 per hundred, postpaid. Same pint, 25¢. OXBORO, Box 7031 BP, Minneapolis 11, Minn.

DRESSES 24¢; SHOES 39¢; MEN'S SUITS \$4.95; trousers \$1.20. Better used clothing. Free catalog. TRANSWORLD, 164-CA Christopher, Brooklyn 12, N.Y.

MAKE \$50-\$100 WEEKLY—HOME, SPARE time. Easy home plan revealed. No selling. No experience needed. Rush postcard for free details. SPARETIME INSTITUTE, Dept. A24, 15 Beckman Ave., Mt. Vernon, N.Y.

FREE CATALOGUE—IMPORTED MEXICAN shoes, purses, accessories: handtooled, unborn calf, alligator, suede, genuine shark leather. NORTHERN IMPORT CO., Reed City 2, Michigan.

CHURCH WOMEN ASD ORGANIZATIONS wishing to make money, write for Free Catalogue! PHILLIPS, Box 18, Shermansdale, Pennsylvania. SEW SIMPLE PRODUCT AT HOME FOR stores. No charge for materials. Write: ADCO, Bastrop 63, Louisiana.

EARN \$240.00 A MONTH AT HOME, SPARE time, doing only two \$5.00 Invisible Mending jobs a day. Big money paid for service that makes cuts, tears disappear from fabrics. Steady demand. Details free. FABRICON, 6247 Broadway, Chicago 40, Illinois.

HOME TYPING: \$65 WEEK POSSIBLE! Details, \$1. TREASURY, 709 Webster, New Rochelle AF-8, N.Y.

EARN \$50.00 FAST, SEWING APRONS. Details free. REDIKUTS, Loganville 41, Wis.

ORCHARDS FOR SALE OR LEASE

"PICK YOUR OWN" ORCHARD—PEACHES, Cherries, Apples, Pears, Plums. W. THILLY, R. D. 6, Danville, Penna.

NEAR NEW CONCORD, OHIO AND MUSK- ingum College, 102 acres, 1200 apple trees, stand- ard varieties, approaching maximum production. 4000 bushels last year. Polisher and grader in- cluded. Insulated and refrigerated storage for 6,000 bushels. 4 bedroom home with bath and oil furnace. Electric cooking. New barn, 2-car garage. Immediate possession. HANDSCHY-GRAHAM, Brokers, New Concord, Ohio.

PERSONALS

PRACTICE DAILY BIBLE READING.

PLANTS

BEAUTIFUL GRAY IRIS WITH BLUE falls also daylilies. Nice bulbs. Choice of 10 \$1.00. MILDRED LOWMAN, Route 5, Ellijay, Ga.

EAST MALLING ROOT STOCK

for budding and grafting
Perfectly rooted and graded,
1 yr. rooted layers, budding size
and 2 yrs. transplanted
Prices on request
GROOTENDORST NURSERIES
Lakeside, Mich.

TREES

- COMPLETE LINE**
- Fruit—Dwarf
 - Flowering
 - Shade
 - Berry Plants, Roses, Bulbs
 - FREE CATALOG

Tualatin Valley Nurseries SHERWOOD OREGON

IF YOU HAVE HERNIA

You can be FREE from TRUSS SLAVERY Surely you want to THROW AWAY TRUSSES FOREVER, be rid of Hernia Wor- ries. Then Why put up with wearing a grip- ing, chafing and unsanitary truss. For there is now a new modern Non-Surgical treat- ment that is designed to permanently cor- rect hernia. These Non-Surgical treatments are so certain, that a Lifetime Certificate of Assurance is given.

Write today for our New FREE Book that gives facts that may save you painful, ex- pensive surgery. Tells how non-surgically you may again work, live, play, and enjoy life in the manner you desire. There is no obligation. Excelsior Medical Clinic, Dept. H8628, Excelsior Springs, Mo.

SEPTEMBER, 1961

RABBITS

RAISE ANGORA, NEW ZEALAND RABBITS on \$500 month plan. Plenty markets. Free details. WHITE'S RABBITRY, Mt. Vernon, Ohio.

SALESMEN WANTED

SALESMEN WANTED

Well established sprayer manufacturer has immediate opening in several territories for salesmen who have ability to create respect and confidence of dealers. Want men 30-40 with successful sales background who have had high school or better, with agricultural equipment specialty sales experience desir- able. Excellent health, willing to travel, ma- ture ability to build territory through hard work and organized efforts. Car furnished, salary plus bonus. Replies held confidential. Send resume including recent snapshot. Write Box 224, American Fruit Grower Publishing Co., Willoughby, Ohio.

MAKE BIG MONEY TAKING ORDERS FOR Stark DWARF Fruit Trees. Everybody can now grow Giant Size Apples, Peaches, Pears in their yards. Also Shade Trees, Shrubs, Vines, Roses, etc. Outfit FREE. Stark Bro's, Desk 30292, Louisiana, Missouri.

SENSATIONAL NEW LONGER-BURNING light bulb. Amazing free replacement guarantee—never again buy light bulbs. No competition. Multi- million dollar market yours alone. Make small fortune even spare time. Incredibly quick sales. Free sales kit. MERLITE (Bulb Div.), 114 E. 32nd, Dept. C-743, New York 16.

SEPTIC TANKS, CESSPOOLS

SEPTIC TANKS, CESSPOOLS, OUTDOOR toilets. Keep clean and odorless with Northel Septic Tank Reactivator. Bacterial concentrate breaks up solids and grease—prevents overflow, backup odors. Regular use saves costly pumping or digging. Simply mix dry powder in water—flush down toilet. Non-poisonous, non-caustic. Six months supply only \$2.95, postpaid (money-back guarantee of satisfaction), or rush postcard for free details. NORTHEL, FV-9, Box 1103, Minne- apolis 40, Minnesota.

SPARROW TRAPS

SPARROW TROUBLE? TRAP THEM. NEW low price. JOHNSON'S, Waverly 12, Kentucky. STOP FEEDING SPARROWS. MAKE YOUR own trap and catch thousands. Free particulars. ROY VAIL, Antwerp 27, Ohio.

WANTED TO BUY

WANT TO BUY ORCHARD. FRANCIS KEN- NEDY, Jolo, W. Va.

APPLE BAGGER, GRADER AND (OR) brusher, cider making equipment. JUNIATA ACRES FARM MARKET, LU 9-3425 Millers- town, Pa.

WILLS

TWO "WILL" FORMS AND "BOOKLET ON WILLS." \$1.00. NATIONAL, Box 48313P, Los Angeles 48, Calif.

OPPORTUNITY ADS

BUY, SELL AND TRADE—Readers and busi- ness firms will get top advertising value at low cost from AMERICAN FRUIT GROWER "Opportunity Ads." These classified ads are widely read, widely responded to by AMERI- CAN FRUIT GROWER'S high-income read- ers throughout America.

RATES—for one insertion, 25c per word. For two insertions, 20c per word per month. Four insertions, 15c per word per month. Count each initial or whole number as one word. CASH WITH ORDER. You can use our companion publication, AMERICAN VEGETABLE GROWER in combination with AMERICAN FRUIT GROWER for only 10c a word more.

AMERICAN FRUIT GROWER reserves the right to reject or alter any copy which does not merit its standards. Ads will be inserted in first available issues unless preferred month is specified by advertiser. Closing date is 15th of second month preceding date of issue.

AMERICAN FRUIT GROWER
Willoughby, Ohio

FRUIT TREES, STRAWBERRY, RASPBERRY AND BLUEBERRY PLANTS



Also Dwarf Apple Trees, Nut and Shade Trees, Ornamentals. Complete line highest quality nursery stock at low prices. Write for free 60-page cat- alog and planting guide then order for planting this fall!

BOUNTIFUL RIDGE NURSERIES
Box F-921, Princess Anne, Md.

STATE CERTIFIED CULTIVATED BLUEBERRY PLANTS

Wholesale & Retail

17 VARIETIES

Order now for Fall Planting

MONROE FARMS

Box 555, Browns Mills, N. J.

Send for Literature and price list

PEACH APPLE TREES LOW AS 20c

Cherries, pears, plums, nut trees, strawberries, blue- berries, dwarf fruit trees. Grapevines 10c. Shrubs, ever- greens, shade trees, roses 25c up. Quality stock can't be sold lower. Write for FREE color catalog and \$2.00 FREE bonus information.

TENNESSEE NURSERY CO., BOX 4, CLEVELAND, TENNESSEE

DEPENDABLE FRUIT AND NUT TREES, SMALL FRUITS, ORNAMENTALS, and GENERAL NURSERY STOCK. WRITE FOR FREE CATALOG.

CUMBERLAND VALLEY NURSERIES, Inc.

Dept. 101

McMinnville, Tenn.



DWARF FRUIT TREES

Enjoy growing your own fruit on dwarf trees. You'll find home-grown, tree-ripened fruits much sweeter, more flavorful, better quality. Grow large tasty apples, juicy plums, delicious peaches, pears, cherries, nectarines, apricots. DWARF TREES are easy to grow in little space, bear young, and produce full size fruit on small trees—ideal for home gardens. Also new grapes, berries, nut trees, fruit trees, blueberries, shade and ornamental trees. Millers color catalog FREE.

J. E. MILLER NURSERIES

905-I W. Lake Road

Canandaigua, N.Y.

DWARF APPLE TREES

Available on Malling, I, II, VII, IX, Malling Merton 104-106-109-111

DWARF PEAR TREES budded on Old Home We are one of the country's oldest Nurseries and the largest grower of fruit trees east of the Mississippi River. If you have a special strain or selection, we will bud on contract for you.

Write us for commercial fruit growers price list.

Kelly Bros. Nurseries, Inc. Dep. AF-9 Danville, N.Y.



DWARF APPLE TREES

Best Varieties for commercial or home planting. Grown on Malling No. 9, 7, 2 or 1 dwarf root stock. Don't buy until you check our complete listings and prices. Also offering a complete line of standard Fruit, Nut and shade trees and berry plants at reasonable prices. Write for our free 60-page catalog.

Bountiful Ridge Nurseries

Box F-911

Princess Anne, Md.

The Trend Is UP

IN spite of much talk to the contrary, fruit consumption in the United States has increased during the last 50 years. On the per capita basis, the increase has been from 158.8 pounds in 1910 to 198.2 in 1959. Ever since World War II, consumption has been in the neighborhood of 200 pounds of farm fresh-weight equivalent.

And when one considers the increase in population that has occurred during the last 50-year period, he can readily see that Americans still like fruit.

On the other hand, the shifts in the various commodities are large. Citrus compared to the apple is the striking example. In 1910 citrus consumption was 17.8 pounds per capita; in 1959 it was 82.8. Conversely, the per capita use of apples was 62.2 pounds in 1910, and 29.3 pounds in 1959.

Fruit consumption other than citrus

and apple has also increased. In 1910 the figure was 78.8 pounds; in 1959 it was 86.1 pounds.

The help from the processor is shown by the tremendous increase in per capita consumption of processed fruits. Practically no citrus was processed in 1910; whereas in 1959 only 33.9 pounds were consumed fresh, and 48.9 were used as processed fruit.

The apple has shown no such increase in processing. In 1910 2.8 pounds were processed, whereas in 1959 7.4 pounds were processed and 21.9 pounds were used fresh. For fruits other than citrus and apple, the amount processed has also increased. The amount was 18.8 pounds in 1910 and 41.4 pounds in 1959.

Yes, Americans still like fruit. The competition is mostly between fruits and between fresh and processed forms. Total consumption for the nation is good, and steadily increasing.

Mounting Grower Control

THE ground swell of grower control continues. And how good it is to know.

Always there is the fear of dictation from above. It has come to governments, to business, and to social reforms. Every so often it threatens the fruit industry.

But notice what has been happening during the last few months and years in the fruit industry. Individual growers have joined hands. They in turn have formed larger units. These have pooled their resources.

And so marketing associations, storage units, co-operatives, improved points of sale, larger units of supply, grower-controlled marketing orders and agreements, grower-controlled research and advertising and promotion and merchandising—all of these—have come ahead. They are gaining strength every day.

Maybe this is because of the inherent nature of the fruit industry itself. Trees are long-time projects. A man cannot suddenly jump in and then as suddenly jump out again. The fruit industry is in the hands of second, third, fourth, and fifth generation families.

Or maybe it is that the problems of growing are now under reasonable

control, so that growers have time to work at other problems. Be that as it may, the important point, is that the grass roots is not only maintaining its control over itself—it is gaining all the while.

And this is why so many good people enjoy the fruit industry. It is a place where people solve their own problems in their own way, and where they control their own destinies.

Fruit Growing is Such Fun!



Fruit Talk

"We sadly note" says an abstracting journal drolly, "the perversity of nature in a report on a spray programme, which, while it much reduced aphid and mite populations, caused them to redouble their egg laying efforts in the autumn!"

Swiss experiments report good control of biennial bearing from applications of **alpha-naphthaleneacetic acid preparations** applied when 80 to 90% of the petals have fallen; also weak varieties prefer a fine mist spray, whereas vigorous varieties require a heavy application.

The 1961 annual of **Pear Growers League and Central Pear Association of California** is 64 pages of up-to-date information on the pear industry of California, ranging from farm labor, sales promotion, and utilization to pear decline, stock-scion relations, and flavor in pears.

The curious and interesting control of **tobacco mosaic virus** by both milk and cow's blood is said to be due to the proteins present, especially casein in milk.

Out-of-season production of paw paw has been realized in **South Africa** by collecting and storing pollen for six months and using it to set fruit on flowers which are induced to form in winter by removing all fruits which set early in the season.

Sub-surface applications have been tried in Washington state by **McWhorter and Wooten** with volatile herbicides—suggested for weed killers which otherwise might cause damage to adjacent crops.

There is new interest in growing unusual and choice varieties of fruits in the garden, witness the availability of scionwood and some trees from **Robert A. Nitschke**, Southmeadow Fruit Gardens, Birmingham, Mich., and **R. W. Daniels**, Potsdam, N.Y.

A mature apple tree uses 400 gallons of water on a summer day.

More than 1000 delegates from all over the world attended the **International Fruit Juice Congress** in Vienna, where among other things the following definitions were agreed upon: limpid juices—as transparent as water; turbid juices—opalescent; pulpy juices—like tomato juice; nectars—especially treated pulpy juices, homogenized and sugared, typical of Italy.

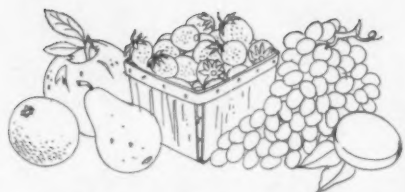
In a pioneer attempt at photographic crop estimates, the **California raisin industry** photographed 825 square miles, involving 1350 photographs, which were developed, examined, and correlated with ground figures, and from which estimates were made of laid raisin grapes within 24 hours after the aerial photography was completed.

—H.B.T.

Coming

- Vineyard Research Pays off
- 11 Acres of Peaches Provide Them a Comfortable Living.
- Fancy Fruit Packs for Holiday Gifts
- Small Power Tools for Pruning Citrus

AMERICAN FRUIT GROWER



Positive Protection...

Production Speed

GER-PAK® HAND-E-ROLL Polyethylene Liners

**Reduces spoilage,
maintains quality**

in shipping and in storage

Send your produce to market or to storage protected in GER-PAK Polyethylene Liners. That's the low-cost way to reduce weight loss, stop shriveling and keep produce fresh, firm and flavorful. GER-PAK Liners come in sizes, thicknesses and types to fit your specific needs. Choice of liners in rolls serrated for easy detachment, as well as handy single flat liners. And remember, the price is right with Gering—leading producer of polyethylene sheeting for agricultural service. Write us for quotations and samples today!

*Pressure tested heat seal... and easy to tear serrated edge.



GER-PAK serves you other ways, too



PLASTIC MULCH—GER-PAK polyethylene plastic mulch speeds growing, ends weeding and provides higher yields, usually at top market prices. Fruits and vegetables are generally of better quality and rotting is minimized. Higher profits more than offset low initial cost of GER-PAK Mulch.



PLASTIC GREENHOUSES—Clear polyethylene sheeting for greenhouses provides durable covering at lowest cost for most efficient growing. A variety of widths are specially packed for greenhouse construction. Choice of standard GER-PAK Sheeting or special "601" light stabilized formulation.



**FREE
AUTHORITATIVE
DATA ON
GER-PAK
POLYETHYLENE
SHEETING**

Write to Gering Agricultural Service, Dept.-HR6, Kenilworth, N. J., for Bulletins No. AG-11 on Plastic Mulching; No. PN-2 on Plastic Greenhouses; and GP-53 on GER-PAK Polyethylene Liners.

GERING

PLASTICS

division of STUDEBAKER-PACKARD CORP.,
Kenilworth, N. J.

proof is in the finish



NOTHING BEATS CAPTAN

Your pay-off at harvest is what counts. That's why more profit-minded fruit growers use captan than any other organic fungicide.

Captan is the standard fungicide for scab and summer diseases because it's the safest, most effective. It lets fruit develop fine color and finish, has increased fruit size and yields. Biennial bearing apple trees have often become annual bearers when sprayed each year throughout the season with captan.

From petal-fall to harvest, Stauffer Captan 50-W controls apple scab, frog-eye leaf spot, Botrytis calyx-end rot, Brooks fruit spot, sooty blotch,

fly speck, black rot, black pox, bitter rot and Botryosphaeria (Bot rot or white rot).

Stauffer Captan 50-W is also the preferred fungicide in late cover and pre-harvest peach sprays because it gives the best color, finish and shipping qualities. It can be used up to and during harvest if conditions favor the development of fruit rots.

Captan is highly recommended for common summer diseases of cherries, grapes, pears, plums, prunes, raspberries and strawberries.

See your dealer. Specify Stauffer Captan 50-W. For a helpful new folder write to Stauffer Chemical Company, 380 Madison Avenue, New York 17, N. Y.



